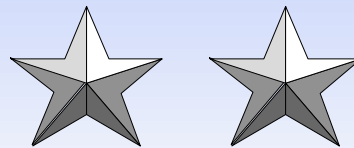
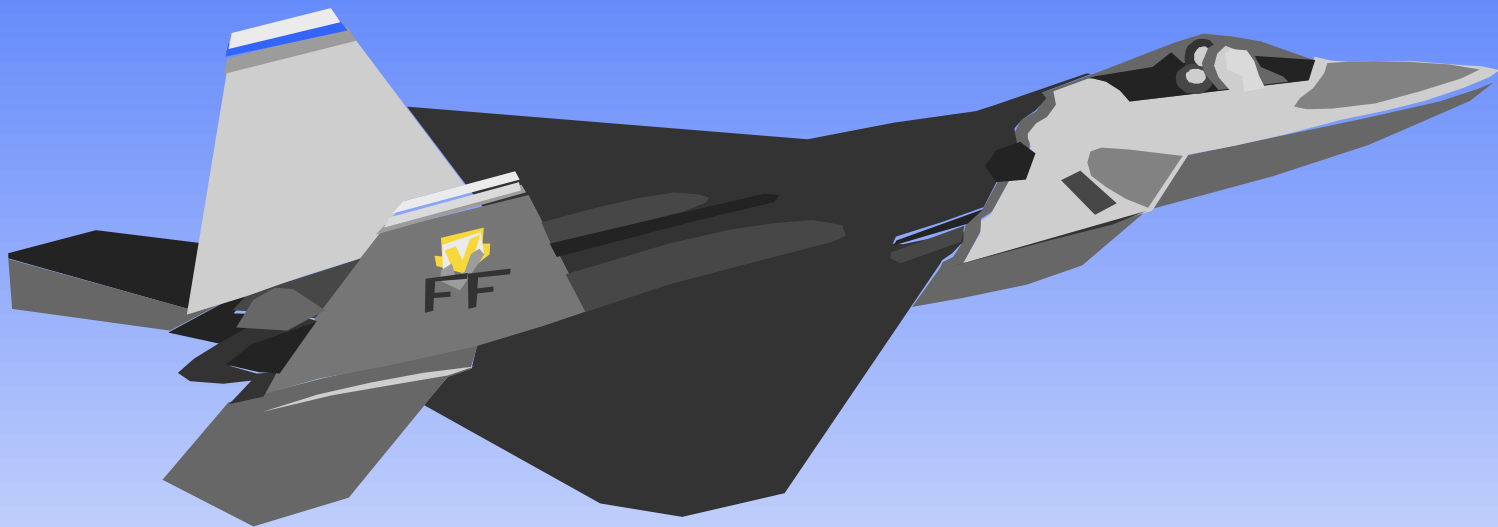


Air Force Modeling, Simulation and Analysis



Major General Tom Case
AF/XOM

Purpose

AIR FORCE MODELING, SIMULATION, AND ANALYSIS

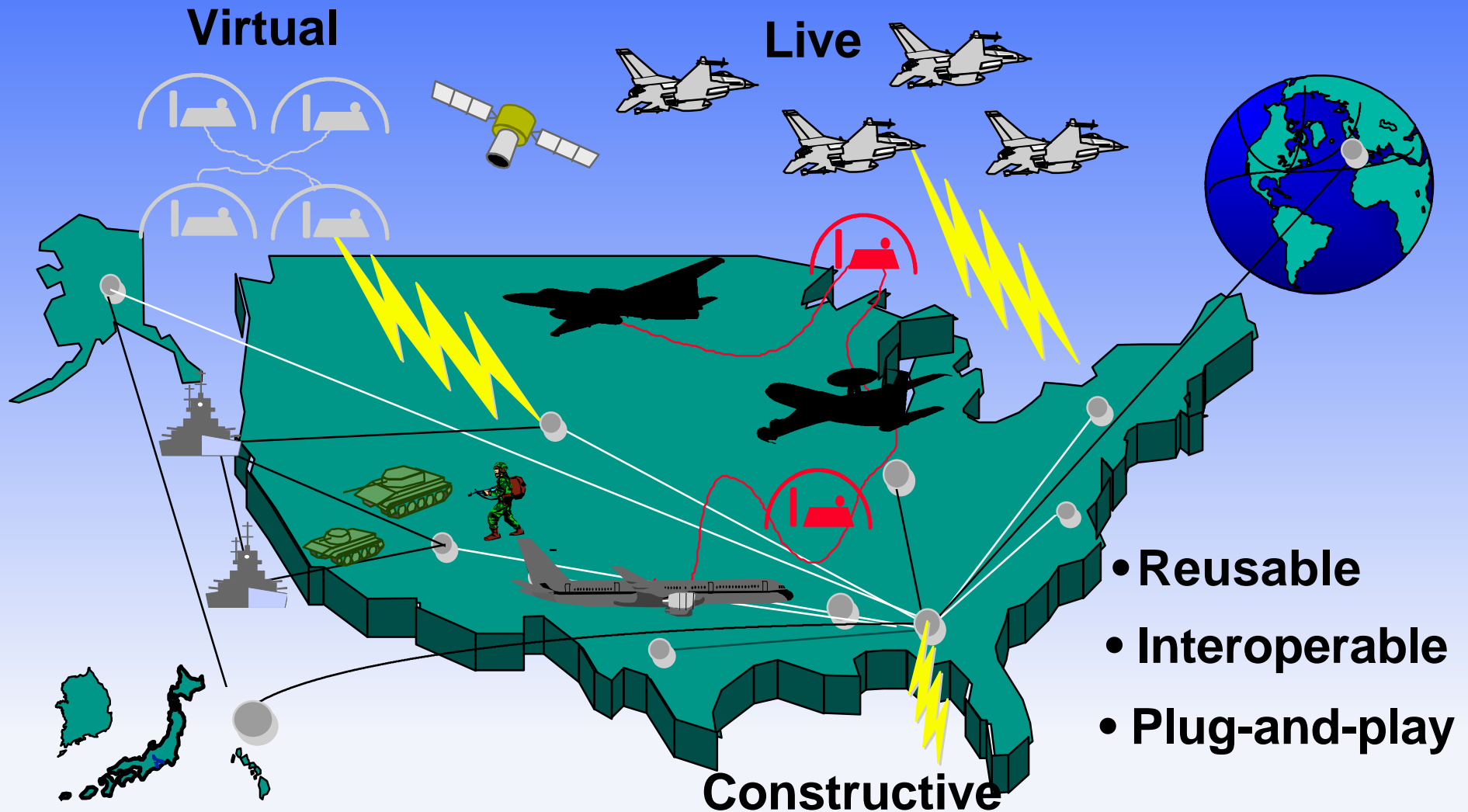
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**Provide a snapshot of
the M&S landscape in 2010 and
the challenges to getting there.**

The Air Force vision is - “A Joint Synthetic Battlespace...”

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“...supporting better decisions and warfighting skills ...”

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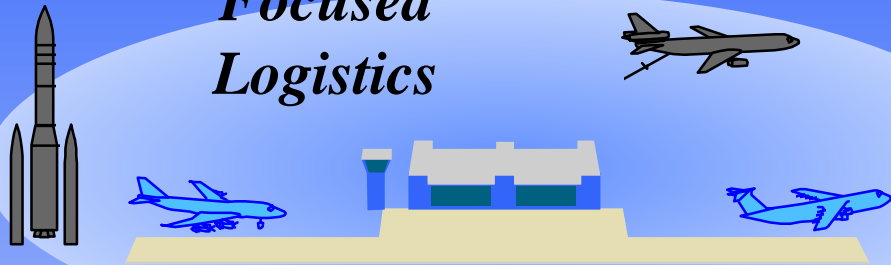


“...for the Joint Force Commander.”

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Focused Logistics



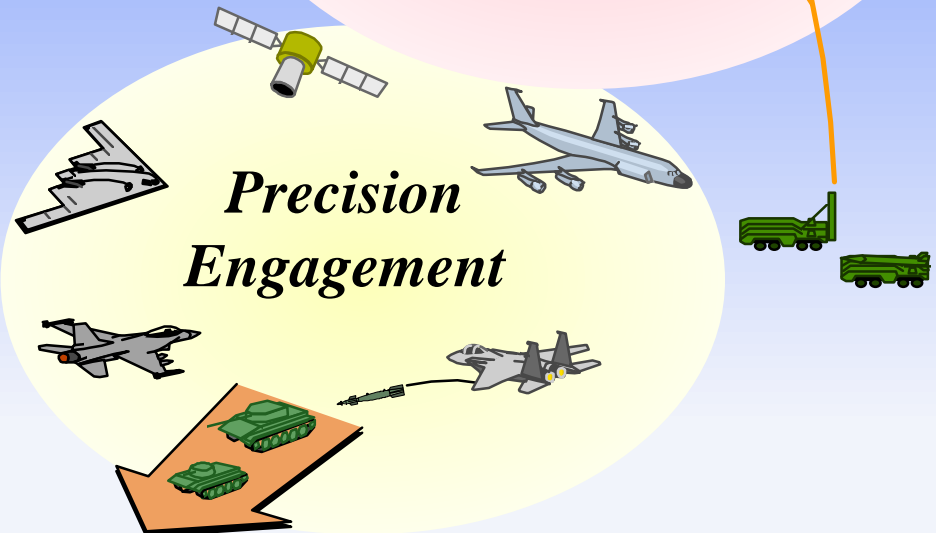
Full-Dimensional Protection



Dominant Maneuver



Precision Engagement



4-Star Summit Provided the Roadmap

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Joint Synthetic Battlespace



AFAMS

JSIMS

JMASS

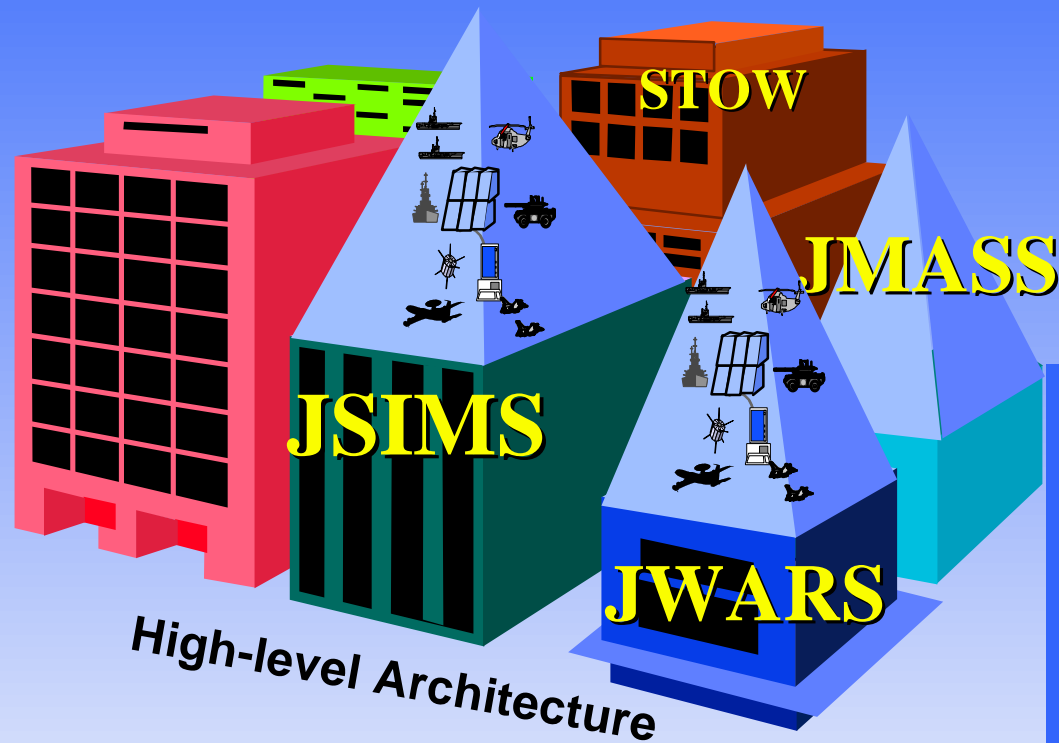
ACES

JWARS

Summit Roadmap Aligns With Joint/DoD Direction

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Reuse
Interoperability
Data standards
VV&A

Joint Training

Joint Simulation System (JSIMS)

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- Next generation of MS&A for Joint battlestaff training
- AF Lead Service and Executive Agent for air and space representation
- JWFC lead on CINC requirements
- NASM program is key supporting AF initiative



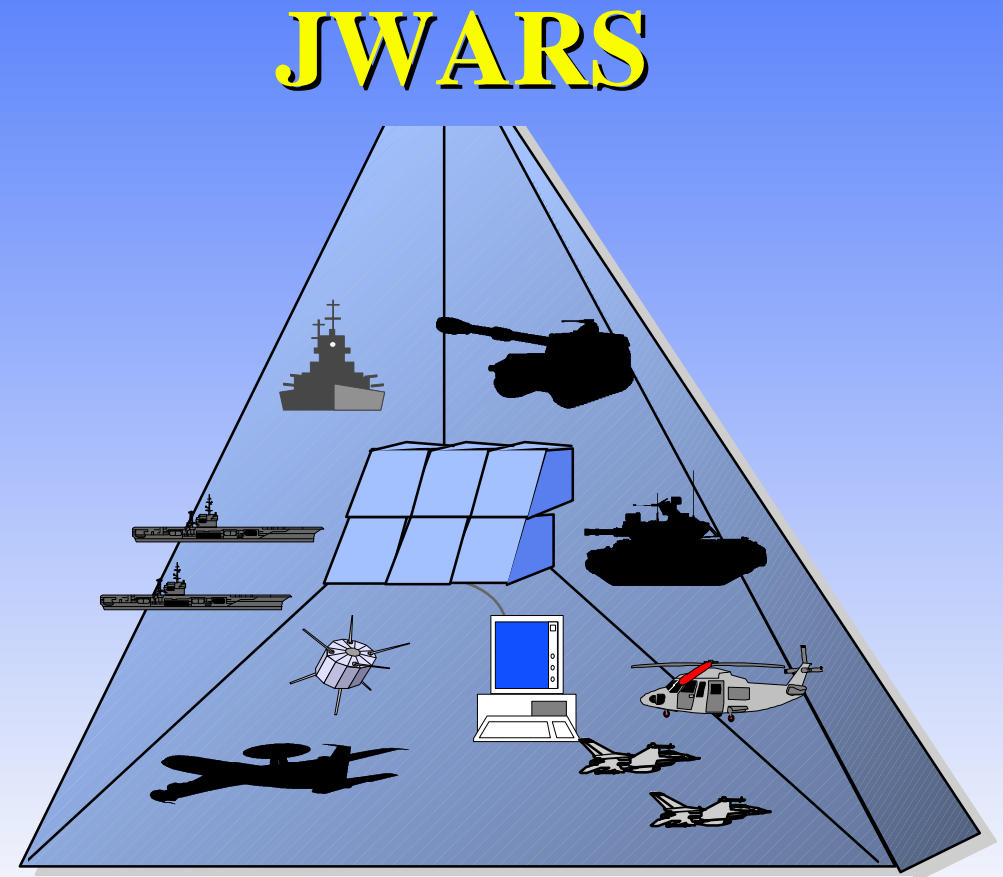
Joint Campaign Analysis

Joint Warfare Simulation (JWARS)

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- Major DEPSECDEF initiative to improve joint campaign analysis
- PA&E leading program
- J8 has lead on requirements
- AF actively involved in defining solutions



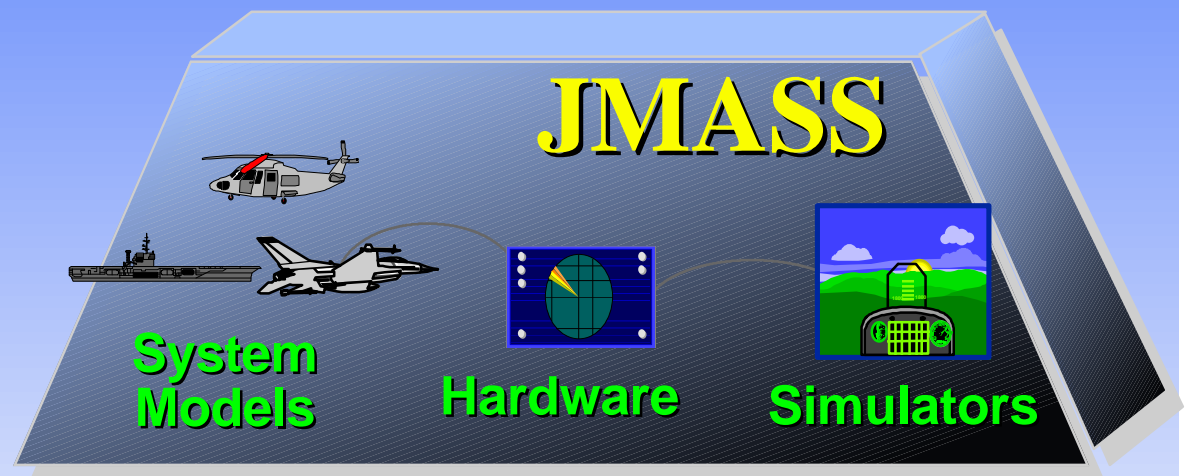
Joint Engagement Analysis

Joint Modeling and Simulation System (JMASS)

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- Air Force-led program
- Developing standards for detailed simulations
- Growing Joint and OSD involvement



Advocating Airpower in a Joint Modeling and Sim World

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**Accurate representations of
air and space power**

Full range of warfare

**Our strength:
theater-ranging perspective**

**Air Force perspective on
Embedded Training**

XOM's Charter

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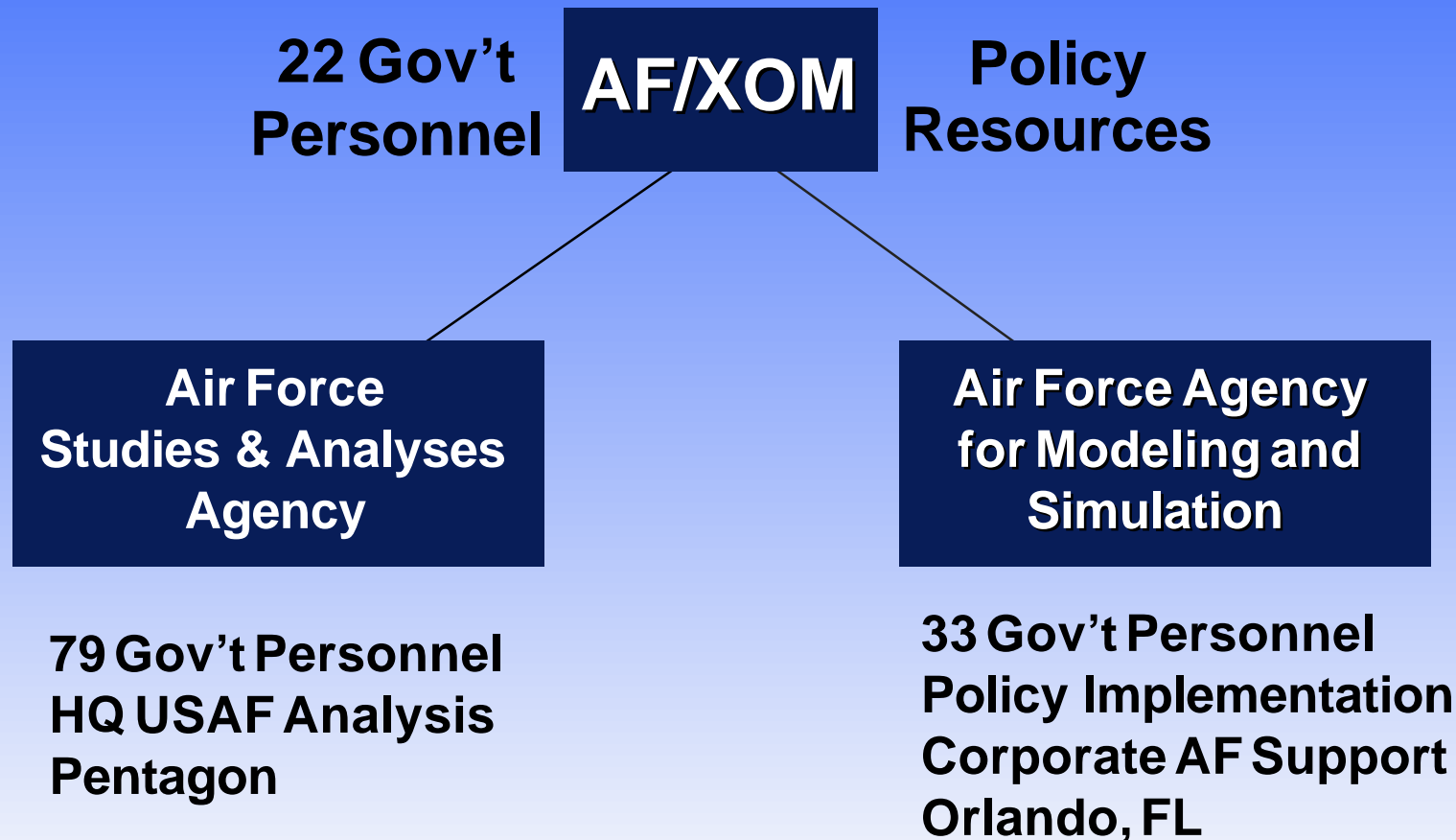
Directorate for Modeling, Simulation, and Analysis

- **Strengthen Operational Readiness**
 - » **Direct Support to Warfighters**
 - » **Support of Acquisition Analysis & Tech Base**
 - » **Advocacy of MS&A Policy and Resources**
 - » **Decision Analysis Support to Senior Leader**
- **Represent the Air Force on Joint/multi-Service/multi-agency MS&A issues**

Directorate of Modeling, Simulation, and Analysis

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Executive Council for M&S (EXCIMS) Organization

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EXCIMS

Chair: Dr Jones (DDR&E)
USAF: MGEN Case (XOM)

DMSO

Director: CAPT Hollenbach

Analysis Council

Chair: Mr Johnson (PA&E)
Mr. Roske (J8/DDWS&O)
USAF: MGEN Case (XOM)

Acquisition Council

Chair: Dr Sanders (DT&E/MSEE)
USAF: Mr Murashige (XOM-S)
Dr Helwig (AQR)

Training Council

Chair: MGEN Sawyer (J7)
Mr Finch (DUSD(R))
USAF: MGEN Case (XOM)

Analysis FWG

Chair: Dr Henningsen (PA&E)
USAF: Col Allen (AFSAA)

Acquisition FWG

Chair: Ms. Morgan (OD(TSE&E))
USAF: Maj Reed (XOME)

Training FWG

Chair: Mr Johnson (ODUSD(R))
USAF: Col Stanfill (XOMW)

AF MS&A Organizations

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AF Simulation & Analysis WG (AFSAWG)

Chair: DXOM

**Mbrship: Air Staff &
MAJCOM O-6s**

**Mission: Advise/assist
CVA and XOM in
overseeing & coordinating
mgt & dev't of AF MS&A**

M&S Integrated Process Team (IPT)

Chair: DXOM (XOMT)

**Mbrship: Air Staff
functional experts**

**Mission: M&S POC for AF
corporate review process**

M&S Technical Planning Integrated Product Team (TPIPT)

Chair: ESC/XRP

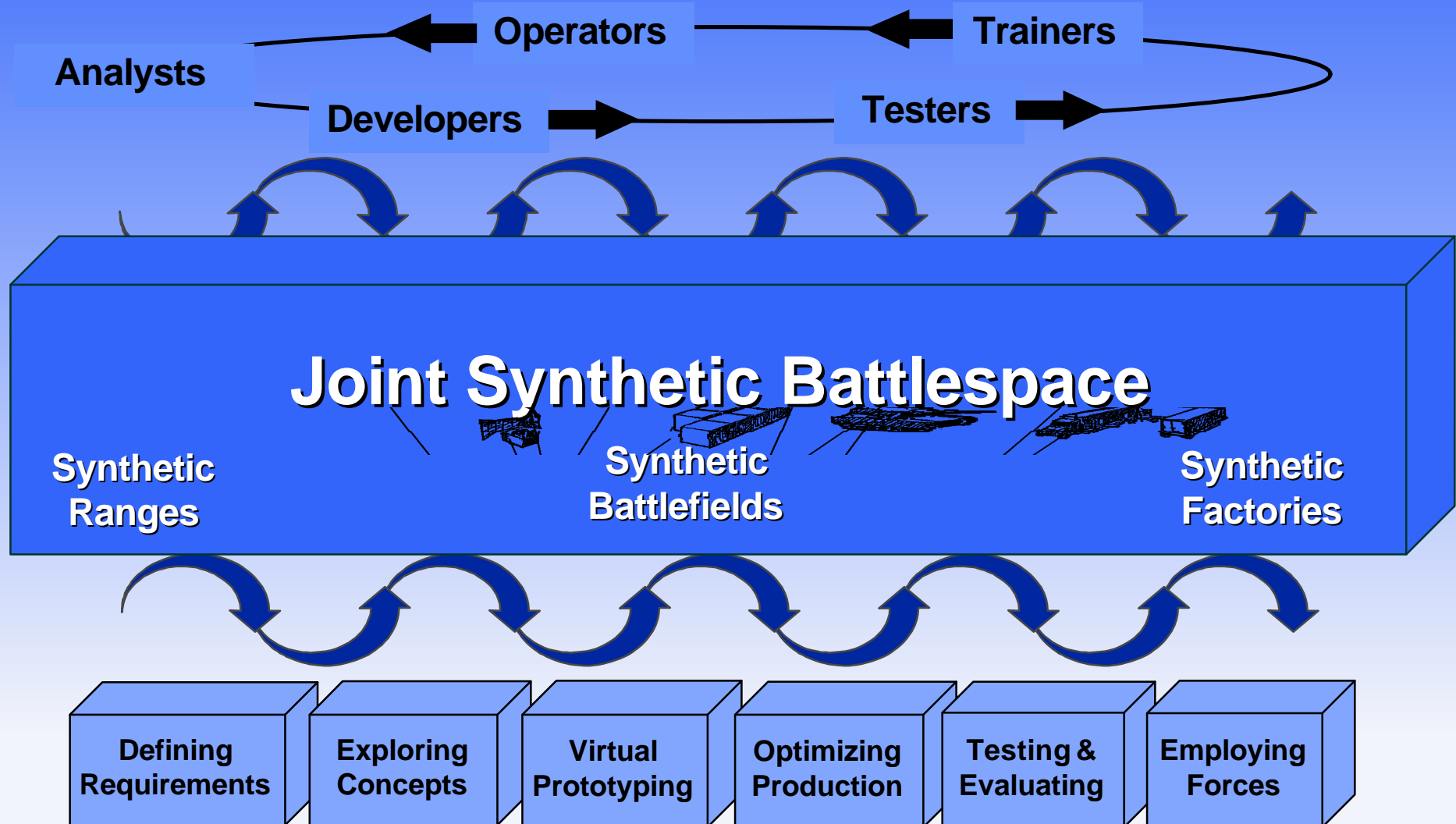
**Mbrship: M&S planners,
developers, scientists, users
Mission: Capture/document
M&S needs to focus dev't
and S&T investment.**

Support AFSAWG

MS&A Supports An Integrated Acquisition Process

AIR FORCE MODELING, SIMULATION, AND ANALYSIS

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Our discussions will be on selected AQ, XO topics

AIR FORCE MODELING, SIMULATION, AND ANALYSIS

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- **Joint Modeling and Simulation System (JMASS)**
 - » Focused application...or...DoD/Joint Standard
- **M&S Solutions for Training**
 - » Investment up front...or...in the field
- **Next Generation MS&A Technologies**
 - » Ride commercial R&D wave...or influence research direction
- **MS&A Management Oversight**
 - » Best processes for vision & policy development...and... acquisition program oversight

The Way Ahead....

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“I am convinced that expanded involvement and investment in advanced simulation technologies, in concert with our sister services, will improve readiness and reduce costs for the nation”

General Ronald R. Fogleman
Chief of Staff, USAF

